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Danbury Safety Feasibility Study

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Prepared by:
Eagle Pond Studio Architects
Wilmot, NH
Jessica Cook, AIA

Narrative:
Danbury's historic town hall, built in 1856, now houses a small 540 square foot Police Office, that does not meet current code and space requirements, and does not have a safe secondary exit path for officers and staff. The original volunteer Fire Department was formed in 1946, and is currently housed in what was a grain storage building, built prior to that, which has been expanded over the years. The F.A.S.T Squad, what is currently the EMS, was started in 1980, and is housed in the same, 4,000 square foot facility. The Stations' undersized apparatus bays and overhead doors require the department to special order custom vehicles at higher costs. Other towns who may need to provide mutual aid station coverage during emergencies cannot always fit their apparatus in the station. All of the concrete floor additions are at significantly different heights which creates dangerous obstacles in travel paths to apparatus slowing their response time when that is the most important factor during emergencies. The various additions were constructed in such a way that there are load bearing walls and exposed large rubble stones separating bays that create tight and non-functioning spaces for accessing apparatus compartments. The building is on a very small lot forcing apparatus to pull directly onto the street during emergencies. The apparatuses also need to be pulled out onto North Road for servicing which is dangerous due to adjacent curb cuts and traffic intersection. While the Fire Department & EMS, with a fleet of 4 large vehicles and several smaller pieces of equipment has outgrown its location, the needs for the Police Station, typically in the 1,000-2,000 square foot range for towns of Danbury's size, would allow for the renovation of the existing Fire Station into a Police Station.

The Master Plan results helped the committee determine the best options during this process. Out of 183 respondents, the 3rd largest percentage had a home dwelling age of 100+ years, and almost 50%, by far the largest percentage, heat with wood. What the highest percentage (26%) of people liked least about town was the lack of a full-time police department. 44% of respondents listed a 'Municipal Safety Center' for Police and Fire as a priority. The highest percentage of respondents (31%) felt that municipal renewable energy upgrades should have a less than 10-year payback period. The respondents rated highest the Police and Fire Service as good and the highest percentage (33%) rated the Fire Service as excellent.

Over seven other Town Department buildings were analyzed during the feasibility process. Several in-person visits and interviews were conducted, and Precedent Building Questionnaires were filled out. The needs, spaces and layouts of other departments, the 'what to do' and 'what not to do' helped the committee determine how best to approach the public safety buildings in Danbury.

82 NH Route 104 Site: .4 miles from 10 North Road (current Fire Station location)
History of Route 104 Lot:
The lot has been owned by the Town of Danbury for over a decade. The Volunteer Fire Department did a controlled burn training on the unsafe and rundown motel on the site, and the lot was cleared at the time, with the plan to build a new facility in the future.

The existing well was analyzed by PDC Water Wells in Gilford, NH. It has a very good flow rate of 25+ gallons per minute at a depth of 500' and 142' of casing. This may allow the fire department to fill trucks on site, and potentially eliminate the need for large on-site water storage for the code required sprinkler system. The current well pump was installed in 1996, and should be replaced when the well is put back in use. 3 phase power is available at the street, Route 104. The state would permit the town to have the two proposed curb cuts onto the state road because the lot had two existing curb cuts on record. A 600-gallon septic system, adequate for needs of the proposed building, would fit with the other features of the lot.

During site analysis, we looked at multiple options, and quickly identified the best position for the apparatus bays to provide drive-thru and back-in bays ensuring that emergency response vehicles have quick and direct access to the street, while being able to maneuver fully off the street. The sequence of spaces adjacent to the Apparatus Bay were laid out to provide 'clean' areas. This limits exposure to carcinogens from a fire scene that can lead fire fighters to have higher rates of cancer than the general population. It was important to have a street facing public entry and clear layout to staff Offices, Public Bathrooms and the Watch Room, where most staff will spend time. This room has clear sight lines to the street, driveway and Apparatus Bay. The Training Room and Kitchen will sometimes be shared for police and surrounding town department trainings, serve as a space for Emergency Operations coordination and host public fundraising events and education, so it is also easily accessible from the public street side entrance. The more private needs of staff were separated by putting Bunk Rooms, Full Baths and a Training Gym, that staff would have access to, on the second floor. The doors to the building are all under eaves to allow for better access during wet and snowy weather.

Alternative Funding Sources
-USDA – Rural Development- Community Facilities Direct Loan & Grant Program
-The Fire Prevention and Safety (FP&S) Grants
-Rural Preparedness Grant
-Assistance to Firefighters Grants

Breakdown of Project Opinion of Cost:
For 4 million dollars at 3.62% on a 20-year bond, it will add $1.62 to the tax rate. At this time that would be $405 a year to an assessed $250,000 home.

Feasibility Summary

1. Project Background
2. Recommendations

Property Assessments

Fire & EMS, Emergency Management

1. Department Description
2. Existing Facilities (Building and Fire Codes & Primary Building Systems)
3. History
4. Facility Space Needs
5. Existing Photos

Police

1. Department Description
2. Existing Facilities (Building and Fire Codes & Primary Building Systems)
3. History
4. Facility Space Needs
5. Existing Photos

Facility Assessment

1. Precedent Buildings
2. Departmental Options (Site Diagrams with spaces for each feasible site and/or scheme with estimates of cost.)

Appendix of notes, drawings, figures and images

Project Background:

At the Town Fire Department, undersized Apparatus Bays and overhead doors require the department to special order larger vehicles. The building does not meet current codes, is not sprinklered against fire and has no exhaust removal system designed for the apparatus bays. The space is not adequate for a dedicated Emergency Operations Center (EOC). Recent national and local natural disasters underscore the importance of community facilities which can operate in times of distress.

The Police Department is in need or a renovation/ expansion. The record storage and evidence storage capacity are no longer adequate. The current station does not provide any holding areas or separate interview rooms. There is no means of timely secondary escape for Police personal from the current publicly accessible offices area, which is a safety concern.

Recommendations:

The current Police Department/ Town Hall could be renovated to include an addition to accommodate the additional spaces needed. The current Police Department space in the Town Hall could also be used for Town functions such as offices for Planning, Treasurer, storage, etc. while keeping its historic features if the Police station is housed elsewhere.

The Police Department can be housed in the existing Fire Station at the North Road location, if renovated. This centrally located site is considered appropriate in terms of the Department's requirements, and will permit the needed Police station space needs expansion.

The current Fire Department location is not adequate, and will not support a suitable expansion on the existing site. Consequently, we recommend this Department be relocated into a new facility.

Fire/EMS Department Description:

Town: Danbury
County: Merrimack
Population:1250 (33 per sq. mile)
Area: in sq. miles: 38.0
Dispatched by: Lakes Region
Annual call volume: 200 calls
Department type: volunteer
Number of stations: 1
Roster- 26 members (estimated 30 max.)
Breakdown of positions- 1 Chief, Deputy Chief, Chief Engineer, Capitan, 2 Lieutenants, 70-80% EMS members

Interviews:
Auxiliary members- no, join with Andover for this
Which mutual aid towns? All surrounding towns, Canaan, Springfield and as far as Belmont, depending on run cards.
Outside public visitors? How many, for what? raffle, training, CPR, stop the bleed,
Training and education? How many and for what? - EMS monthly, fire monthly, state warden training.
How much mechanic work is done in the bays of the station? some

Existing Facilities:

Interviews:
Discuss existing electrical meter- 3-phase power-no, single phase, not to code
Receptacles, etc. all code compliant- i.e., ground fault intercept…? No, look at NEC regulations.
Communication system? radios
Fire alarm- alarm company, ADA compliant- no
Sprinkler system? no
Heating/ cooling systems and year? propone fired hot air 2014/2015
Hot water heating? Electric resistance, 20-25 gallons, 10 years old
Kitchen- NFPA compliant? Hood, etc.? No, residential grade
Air Compressor location? Could exhaust fumes conflict with it? No, all set
Fire Apparatus- diesel or gas? Which ones? diesel for all
Need for separate hazardous materials storage? Could utilize fire proof boxes, liquids cabinet
Water is not potable currently, dug well
Ventilation for trucks- no hook up system
Trucks are refilled at Bog Dam from dry hydrant (off Ragged Mtn. Road) 1.8 miles from station

History:

The original fire department, formed in 1946, purchased 2 grain storage buildings, one for the Fire Department and one for the Town Garage, which was eventually moved across and down the street, as the Fire Station was expanded. The F.A.S.T Squad was started in 1980. This is according the *'1995 Centennial History of Danbury'*. The Town Garage was eventually sold to a private entity when a new Highway Garage was built on another site.

Photos from '1995 Centennial History of Danbury'

Fire/ EMS Department Facility Space Needs:

1.Apparatus Bay
- 4800 square feet (60'x80')
- Three 14'x14' doors
- Diesel exhaust removal system (PRO-Vent)
- Electrical and air at each bay so truck can be plugged in and charged.

2.Office Space
- Two 140-160 square foot offices.
  - One to by shared by the Chief and Deputy Chief.
  - One to be shared by the Captains and Lieutenants.

3. Personnel Needs
- Two restrooms with showers.
- Two bunkrooms
- Space to accommodate workout equipment. The department receive gym equipment through a grant but has never been able to fully utilize it because of lack of space.

4. Commercial kitchen.
- Large enough to feed large groups at trainings and to feed the public in case of an emergency.

5.Training and meeting room. Our current area is approximately 500-550 square feet and is often not big enough to accommodate our needs. 900-1000 square feet would be more adequate. With adjacent public restroom.

6.Two large storage rooms, 140-160 square feet. One for firefighting equipment and one for EMS supplies.

7. Mechanical room.
- Space to house gear extractor (size of large washing machine) and gear dryer (approximately 4'Wx2Dx6'H)
- Air compressor (Three phase power)
- Washbasin.
- Room for SCBA compressor, approximately 7'x6'x3'. (Three phase power)

8. Standby generator with automatic start and transfer switch.

9. Hose tower or system to dry fire hose

EPS Original Opinion of Costs:
4800 sf+ 300 sf +300 sf + 400 sf+ 400 sf+ 400 sf+ 1000 sf+ 300 sf+ 300sf
8,200-8500sf x $500-600= $4,100,000-$5,100,000

Emergency Management Facility Space Needs:

1. Space for EOC (Emergency Operations Center)
2. *Regional shelter (could come with grant funding)*
3. Watch Room into the Apparatus Bay, Training (Common) Room and looking outside
4. Larger area that could house trainings larger than 20 people

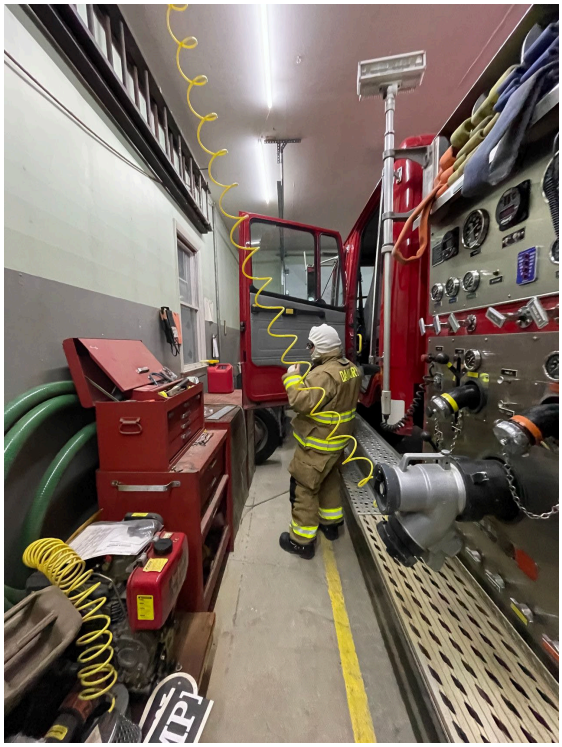
May need more apparatus doors for better access in and out. Drive-thru station would give the department the most apparatus/ future flexibility

Sinks for cleaning of equipment entering the building to contain contaminants in gear, hose, equipment.
On site water storage may be needed for sprinkler system for building
Future fire prevention/ regional office may be needed

Existing Fire/EMS Photos:


ENGINE 3
DANBURY
FIRE DEPT

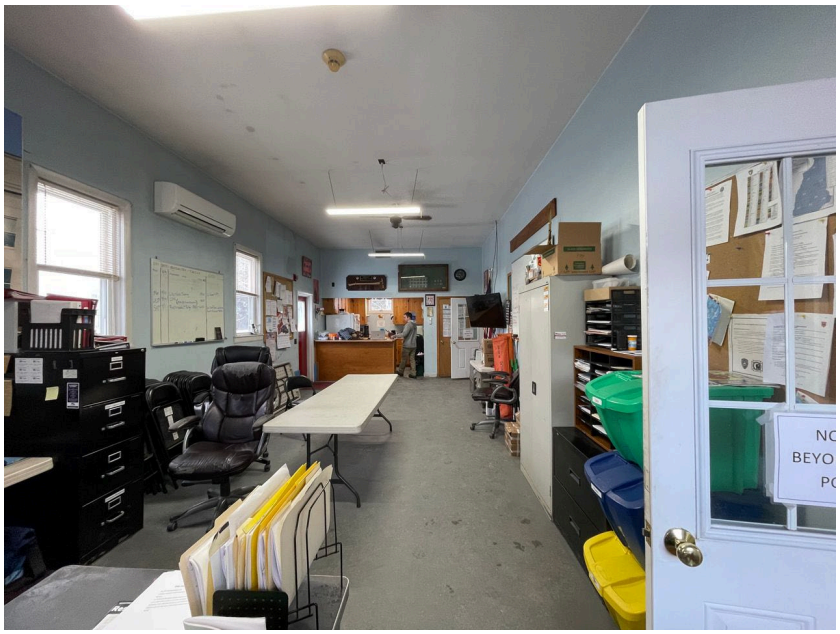

DANBURY



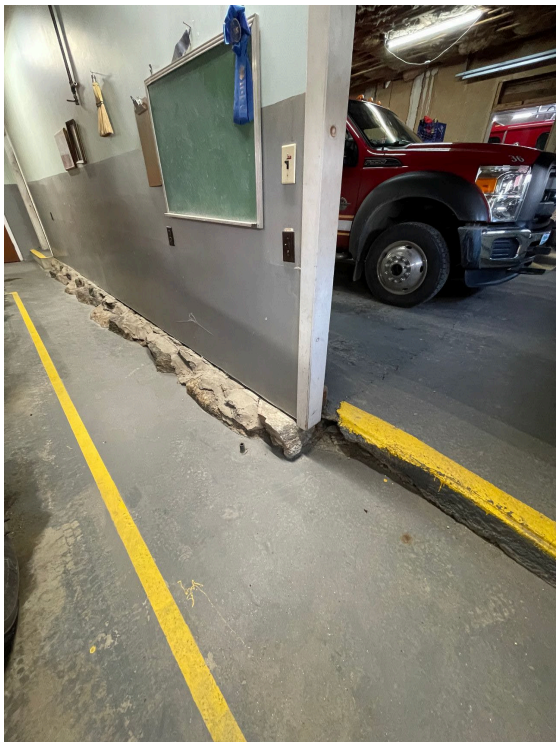

911
Bearcat


RICATION TOOLS
TARPS
TAG LINES
FIRE


NOTICE
FIRE




PLEASE MAKE
SURE TOILET
TANK SHUTS OFF
AFTER FLUSHING




HARVEST
DISPLAY

Police Department Description:

Danbury PD Chief is a part-time position (25 hrs./ wk. currently) appointed by the BOS, that could increase police coverage in town by adding several other part-time officers.
Up to 4 part time police officer spots (including chief)
1 Admin position
Locking storage bins for police items
Franklin has a sallyport that has been used by department

Dispatched by: Franklin PD
annual call volume:145 on average
Which mutual aid towns? Grafton, Alexandria, Bristol, Andover, Wilmot & Franklin (Hill has difficulties staffing their police department)
Other reasons why people might come into station:
To get copies of reports, case files
In person reporting
Sex offenders to register quarterly
Animal control

Interviews:
Training and education? How many and for what?
32 hours of classroom time yearly is required about a variety of continuing education topics. If the department is able to host a class, the agency's fees for that class is typically covered, and can saves hundreds of dollars.
Is there a police benevolent association that Danbury belongs to? No

Existing Facilities:

Discuss existing electrical meter- 200 amp
2022(?) new propane boiler was installed in Town Hall
Receptacles, etc. all code compliant (NEC regulations)-Mostly-Safety committee is working on Town Hall building compliance
Communication system-Yes
Fire alarm-ADA compliant- Safety committee is working on Town Hall building compliance
Sprinkler system? no
Heating/ cooling systems and year- AC window units for different offices, 2022 boiler, police office and main room are on the same thermostat, but could be the police office could be on a separate zone if another thermostat is installed.
Electric on demand hot water for the police bathroom/ confirm what hot water heater in rest of town hall
Not enough hot water to full larger bucket all at once to wash floors. Need proper janitor's closet with mop sink if possible.
No outdoor hose bib at Town Hall for water or outdoor cleaning.
No Generator at Town Hall

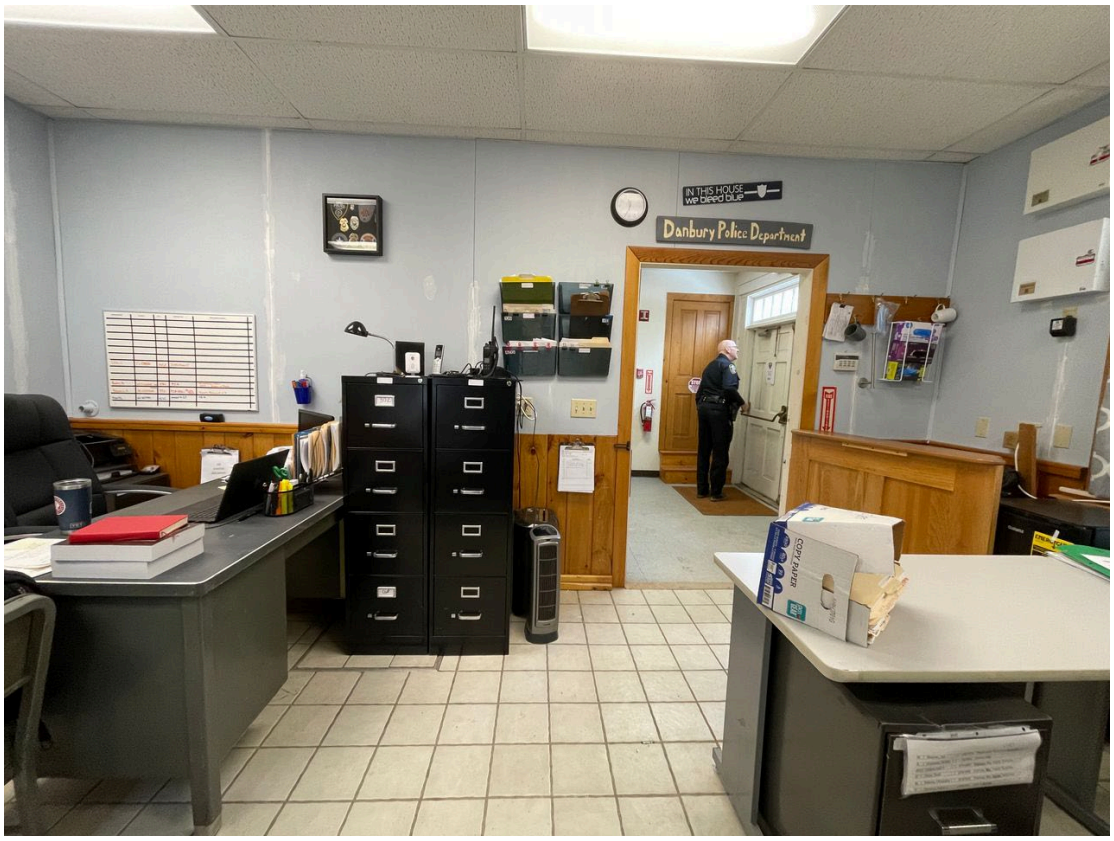
History:
Original building was built in 1856 and is a mix of solid sawn wood framing and heavy timber framing. An addition in the back of the original building for town offices was done in the 1990s/ early 2000's.

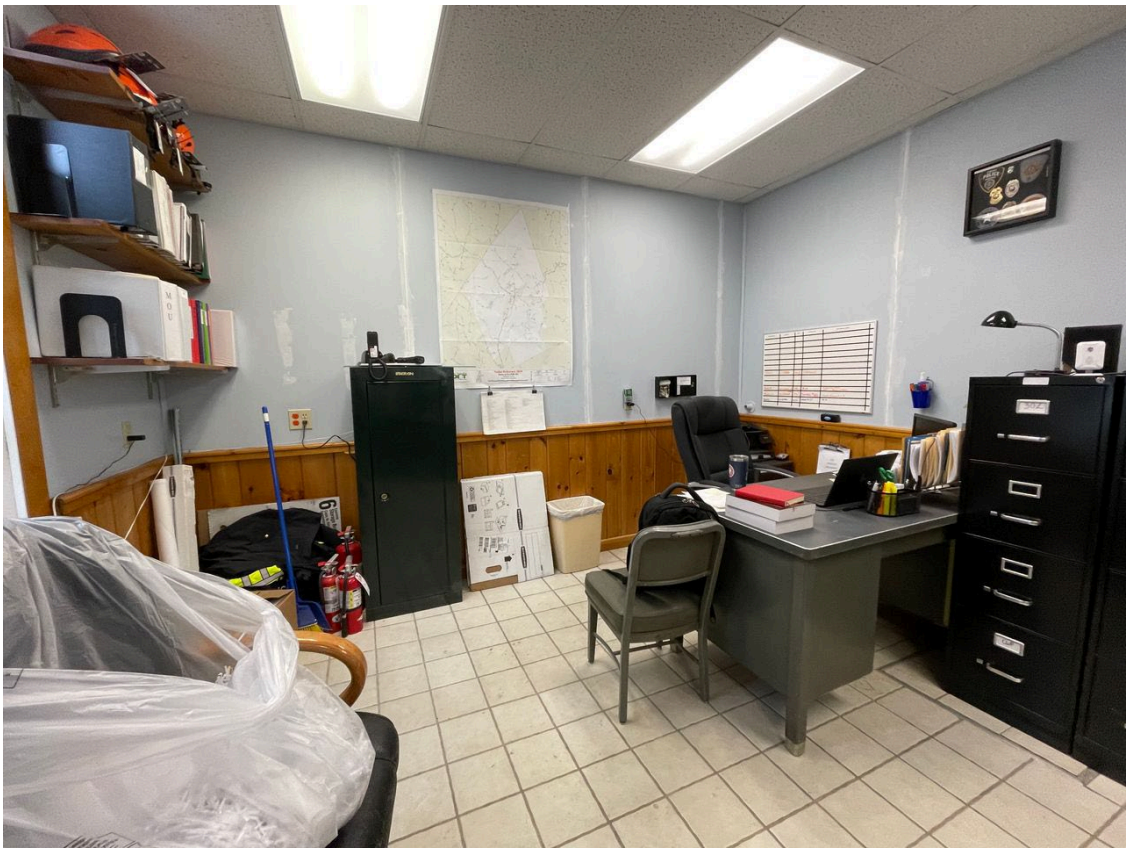
Police Department Facility Space Needs:
Booking area 160 sf (Holding Room with in Booking Rm)
Evidence Room 80 sf
Rm off of Foyer for shorter interviews- 80 sf
Chief's office- 100 sf
Part-time Officer office- 100 sf
Foyer- 100 sf
Admin office- 80 sf
Record Rm- 100 sf
Interview Rm- 80sf (with AV, Recording Equipment)
Bathrooms (2) 60 + 60 sf
toilet/ sink (flushing from exterior) in booking room
Shower for officers to be able to clean up as needed before going home.
Circulation- 100 sf
Additional storage space and closets in rooms- 100 sf
Total: 1200 sf
EPS Original Opinion of Costs:
Total: 1,800-2000 sf x $500-600= $900,000-$1,200,000

'Sally' Port to secure someone in custody, and go directly into booking room, with potential to house two cruisers- 800 sf
Access building with a fob instead of key, and keeps track of coming and going within the alarm system
Police cruisers- both gas
Year make/ model or timeline to replace either or both: 2016 and 2020, general replacement is 10 years or mileage and wear and tear.
Note: one cruiser is at the town shed.
Need for separate hazardous materials storage- sometimes such as bullets (could become projectiles if there was a fire) or items coming back from the lab labeled with certain warnings. These could be put in specialty cabinets, fire proof boxes or a fully secured evidence room.
Sharing spaces with other town functions is ok; ie. Community Room, Kitchen & Bathrooms. The Police Station does not need to be connected to the Fire Station; a training room could be shared.
Safety Building could be a command center for disaster control, podium/AV etc. with cots for people to sleep for emergency management.
8500 sf shared Police/ Town building needing more storage as a recent example in built in Campton. Rough estimates were $2,000,000 at that time, but cost to town was approx. $800,000 because of Grants.

Police/ Town Hall Existing Photos:


EXIT

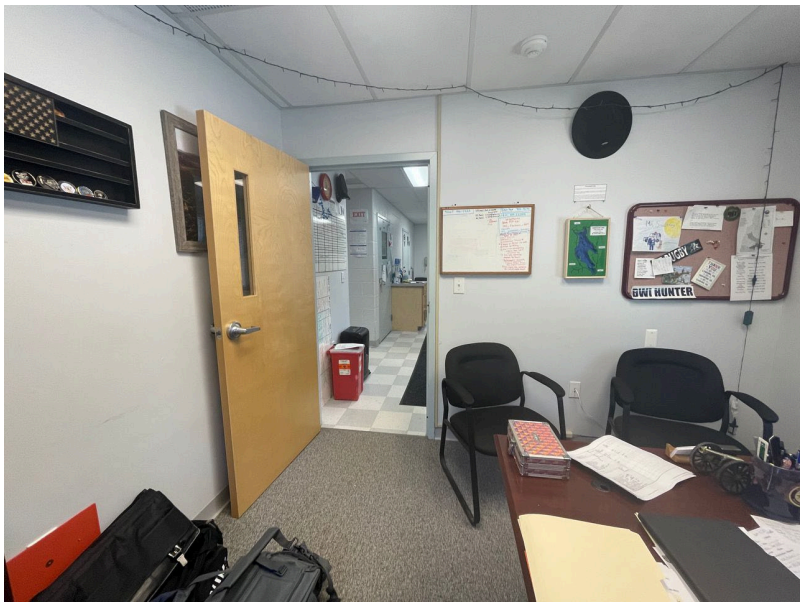

IN THIS HOUSE
WE DRINK BLUE
Danbury Police Department



Precedent Buildings:

Alexandria, NH Police Station/ Town Hall:

Year Built and/or year renovated and/or addition(s) done: Late 1990's- Early 2000's
Cost: unknown
Square footage (if possible broke down by types or list of spaces (ie- offices vs. apparatus bays):
Police: 1050 sf
Lot size: unknown
Lot Special Features: flat field, larger lot
Number of Parking Spaces: 20+
Size of department: 2 full time officers, 1 part time administrator
Population of the town: 1776
Area of Town in square miles: 43.3
Annual call volume: unknown
Department type: NA
Number of stations in town: 1
Building Systems: Propane heating, only a few zones, police station is not on separate zone
Construction Type/Materials: stick framing, clapboards
If the building is combined functions-what were the reasons for this?
Town Hall & Police Station, shared main entry, conference room, kitchen, bathrooms
What works well and what could have been done differently?
larger storage and training room, de brief space was discussed,
add door between admin. office & back offices that could be left open
1/2 folding tables work well for training room layout (15" x 8')
Photos:


GWI HUNTER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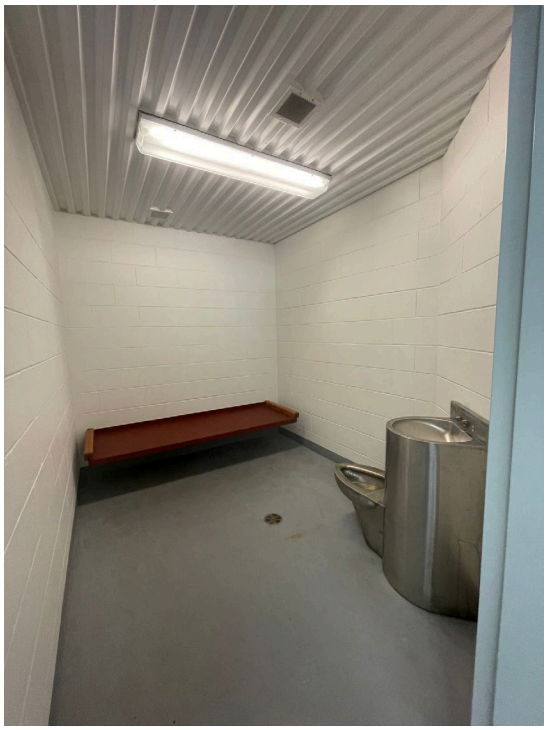
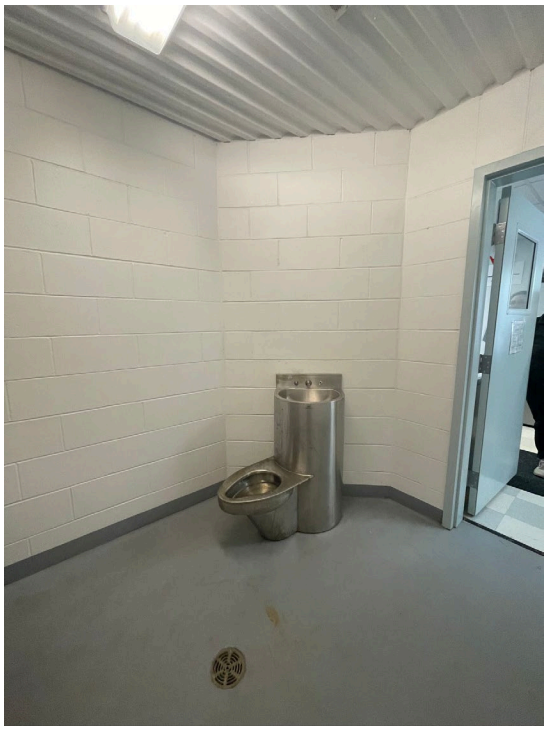
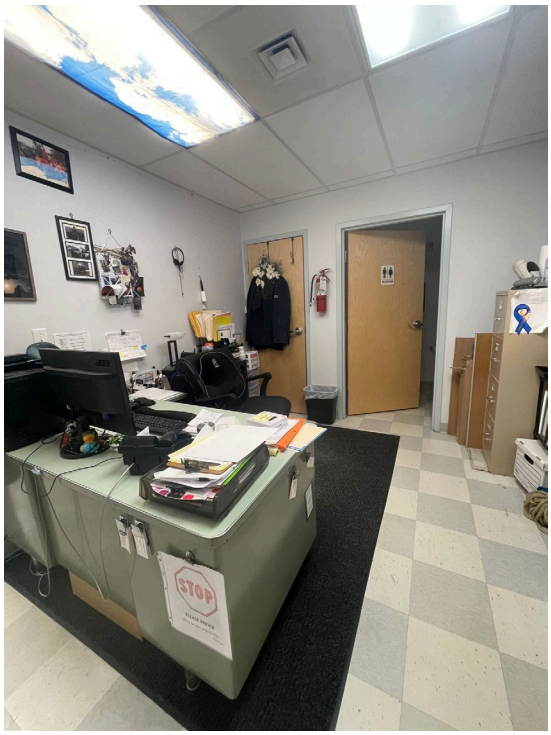
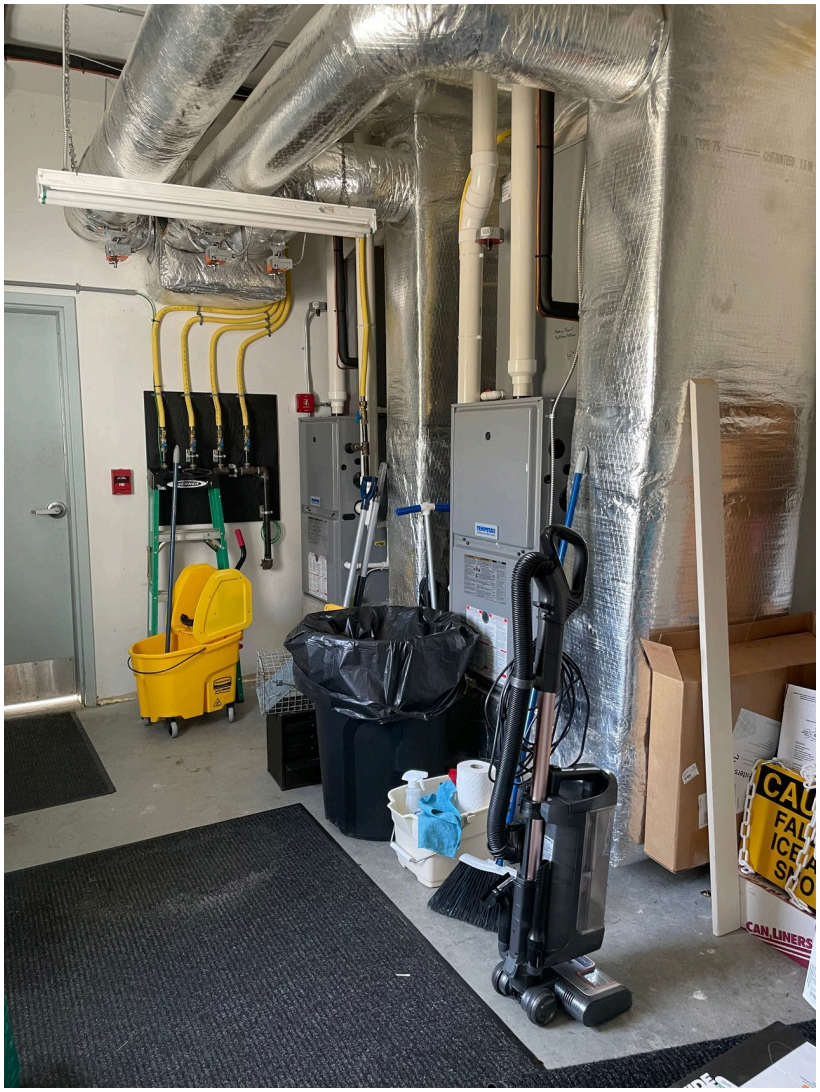





STOP


EXIT



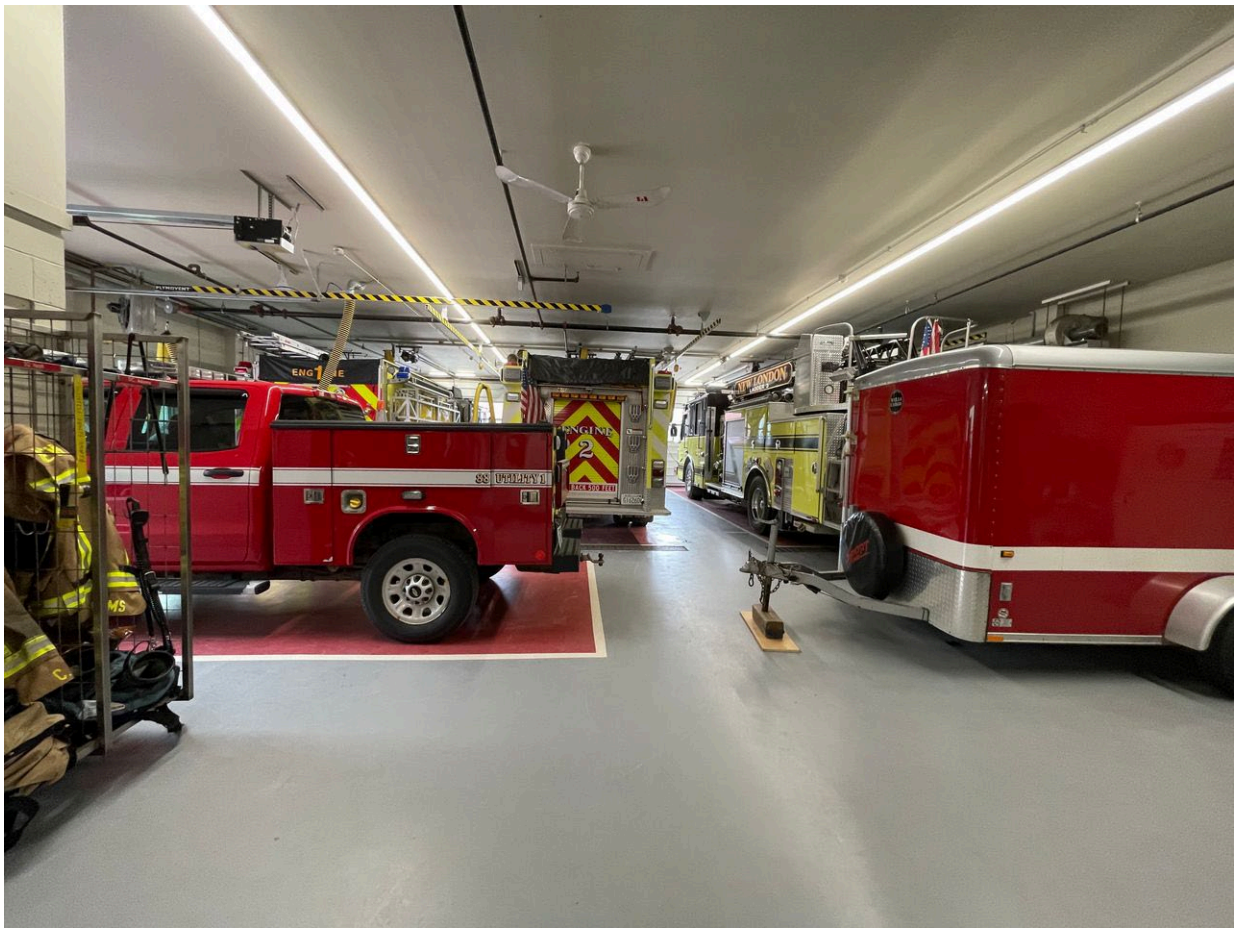
New London, NH Station:
Year Built and/or year renovated and/or addition(s) done: Originally built in 1972 (apparatus bay) with addition in 2004 of office/ firefighter space
Cost: $462,000 for addition in 2004
Square footage (if possible broke down by types or list of spaces (i.e.- offices vs. apparatus bays): Apparatus bays and adjacent needs: main: 3900 sf, secondary bay: 940, First floor offices/ meeting, etc.: 2400 sf, second floor bunks, fire prevention, lounge: 2400 sf Total: 8,797 sf proposed-on drawings. Actual calculated sq is 9,600 sf
Lot size: 0.94 acres
Lot Special Features: down town, geographically centered
Number of Parking Spaces: 18 (more shared with adjacent lots)
Size of department: 45
Population of the town:4500
Area of Town in square miles: 25.42
Annual call volume: 850-1000
Department type: combo
Number of stations in town: 1
Building Systems: Modine heater in apparatus bay, radiant on first floor addition with baseboard heat on second floor addition with heat pumps (mini-splits) added recently.
Construction Type/Materials: conventional 2x6 framing, tji framing, trusses, drywall, use of second floor under-eave space.
If the building is combined functions-what were the reasons for this?
Not combined but training room can be shared. No discussions to share. Noted was Hanover and Sunapee as separated uses under one roof, making for a much larger building in cases.
What works well and what could have been done differently?
11' tall doors (custom ladder truck to fit in ladder 950 gallons of water was taken up. Discussions for renovated side bay to fit taller garage doors for regular ladder truck. Engine 1/ tanker, 2 Engineer/ Rescue, Ladder (triple use), tanker, 2 fire vehicles, boat and trailer. Reduce the need or apparatus with multi-use, but back up in case one goes out of service. Fire Prevention (inspection) office, Quarter master room, for additional equipment storage, Exposed Kitchen to meeting room, not commercial, but for fire events. Larger meeting room (for 20-25 people now) Front (street) view from the watch room or station area. Stair stepper for agility test for fire fighters, Town Office is the EOC, not the fire station
Are there any other features worth noting?
Items for Kitchen, etc. were donated, and some of the work done by the fire fighters during the process to save money. Regional shared resources may be needed in the future. Second floor is for authorized personnel only (not public). Discussed Meredith Station& Boston 15- Ladder 33- reference. New London is looking to possibly build a new police station separate from the fire station

Photos:


NEW LONDON FIRE DEPT
FIRE
DEPT
PARKING
ONLY


EXIT

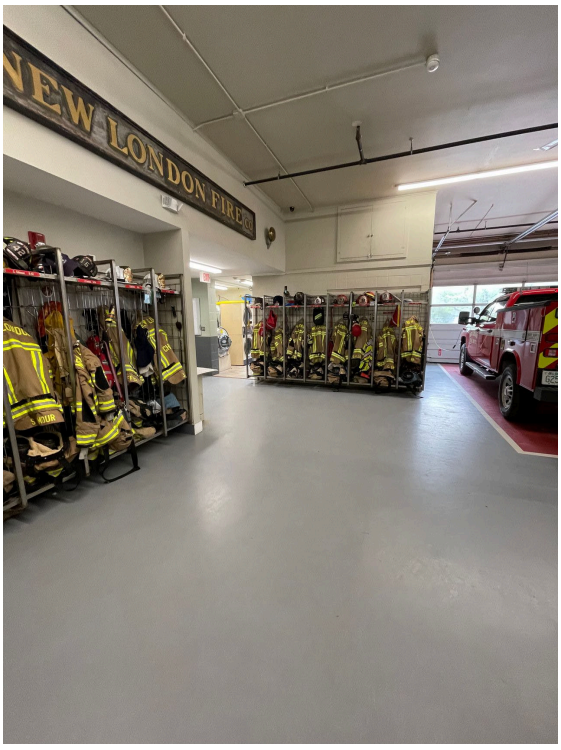

NEW LONDON FIRE DEPT

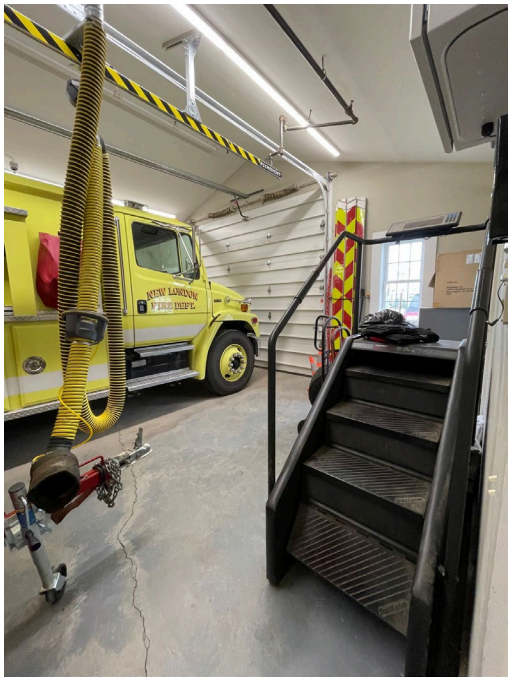

ENGINE
2
NEW LONDON


EXIT

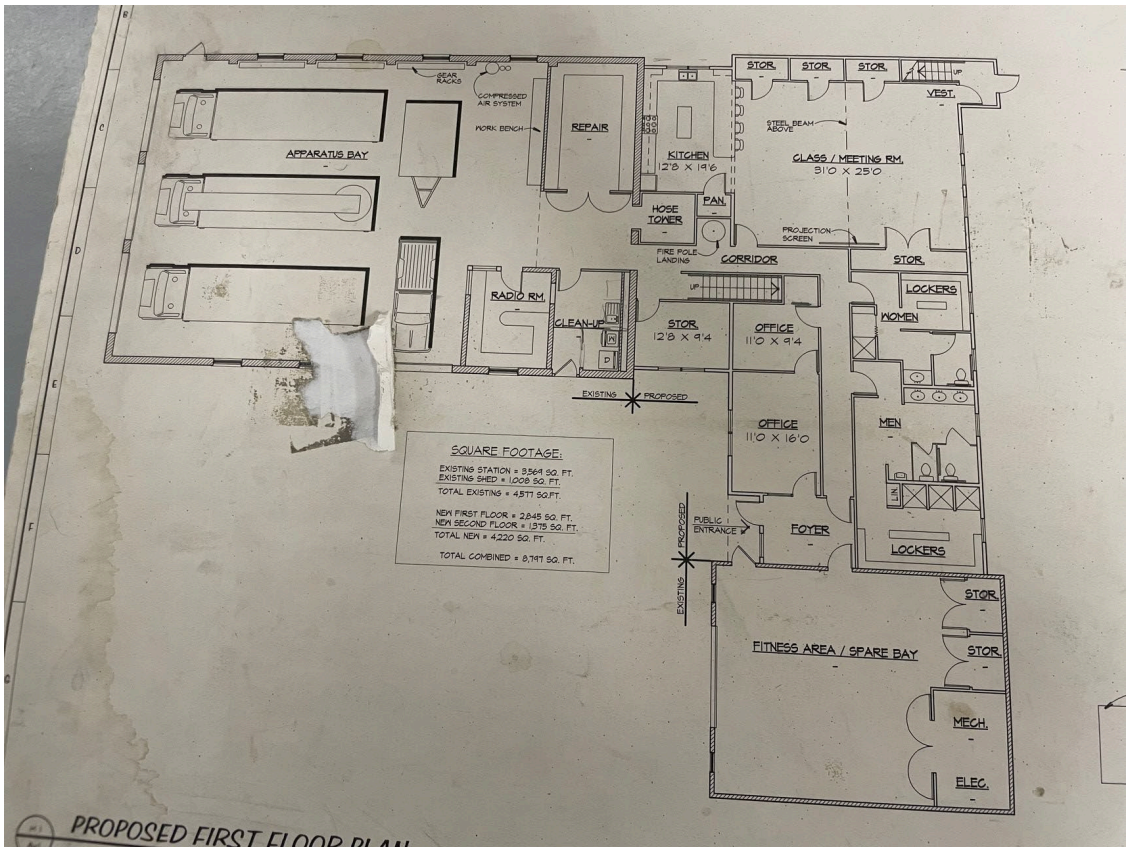

NEW LONDON
LADDER
3
616260

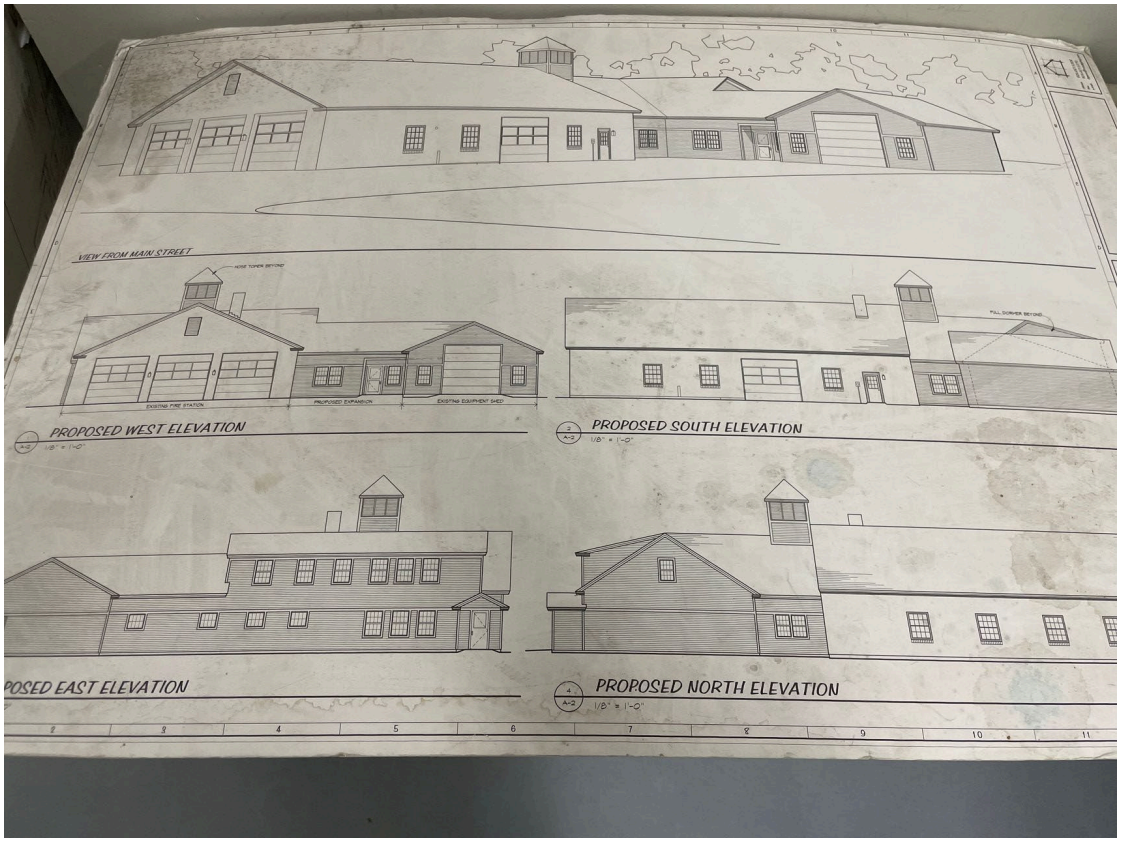

EXIT


NEW LONDON FIRE


NEW LONDON
FIRE DEPT.


EW LONDON
FIRE DEPT.


APPARATUS BAY
GEAR RACKS
COMPRESSED AIR SYSTEM
WORK BENCH
REPAIR
KITCHEN 12'8 X 19'6
STEEL BEAM ABOVE
CLASS / MEETING RM. 31'0 X 25'0
STOR.
STOR.
STOR.
VEST.
UP
HOSE TOWER
FAN.
PROJECTION SCREEN
FIRE POLE LANDING
CORRIDOR
STOR.
LOCKERS
WOMEN
RADIO RM.
CLEAN-UP
STOR. 12'8 X 9'4
OFFICE 11'0 X 9'4
EXISTING
PROPOSED
OFFICE 11'0 X 16'0
MEN
SQUARE FOOTAGE:
EXISTING STATION = 3,564 SQ. FT.
EXISTING SHED = 1,008 SQ. FT.
TOTAL EXISTING = 4,571 SQ.FT.
NEW FIRST FLOOR = 2,845 SQ. FT.
NEW SECOND FLOOR = 1,375 SQ. FT.
TOTAL NEW = 4,220 SQ. FT.
TOTAL COMBINED = 8,791 SQ. FT.
PUBLIC ENTRANCE
PROPOSED
EXISTING
FOYER
LOCKERS
STOR.
FITNESS AREA / SPARE BAY
STOR.
MECH.
ELEC.
PROPOSED FIRST FLOOR PLAN


VIEW FROM MAIN STREET
PROPOSED WEST ELEVATION
1/8" = 1'-0"
PROPOSED SOUTH ELEVATION
1/8" = 1'-0"
POSED EAST ELEVATION
PROPOSED NORTH ELEVATION
1/8" = 1'-0"

Newbury, NH Fire Station:

4/24/23 Notes-

Year Built and/or year renovated and/or addition(s) done: August 2021 Timeline: After Town meeting - 2020-Demo was March to July with wetlands hold up, conceptual design- 2017-2018

Cost: $3.8 mil

Square footage: 9900 sf, $383 psf- proposed sq.

Actual calculated from 11,835 sf on town assessment- $321 psf

PD - 1.4 mil- turnstone corporation (builder)

Architect: Peter tenant - Tennant Goucher

Builder: North Branch

Lot size: 1.75 acres

Lot Special Features: retaining and blasting

Number of Parking Spaces: 22 (1 handicap)- one side of building, playground on other side with additional parking

Dispatched of new London

Size of department: 28; 50-50 fire/ ems ratio

Population of the town: 1,743

Area of Town in square miles: 38.1

Annual call volume: 400

Department type: volunteer call hour rate

Number of stations in town: substation in Blodgett's Landing -one truck

Building Systems: heat pump vac system. Radiant in the bays with Modine heater for supplemental. Electric back up heat in EOC. Mech space in apparatus bay for storage and meets OSHA

Construction Type/Materials: stick built and CMU, trusses

If the building is combined functions-what were the reasons for this?

New police station to occupy existing fire station- full renovation

What works well and what could have been done differently?

Could be better: leaves blow into the gear room

Are there any other features worth noting?

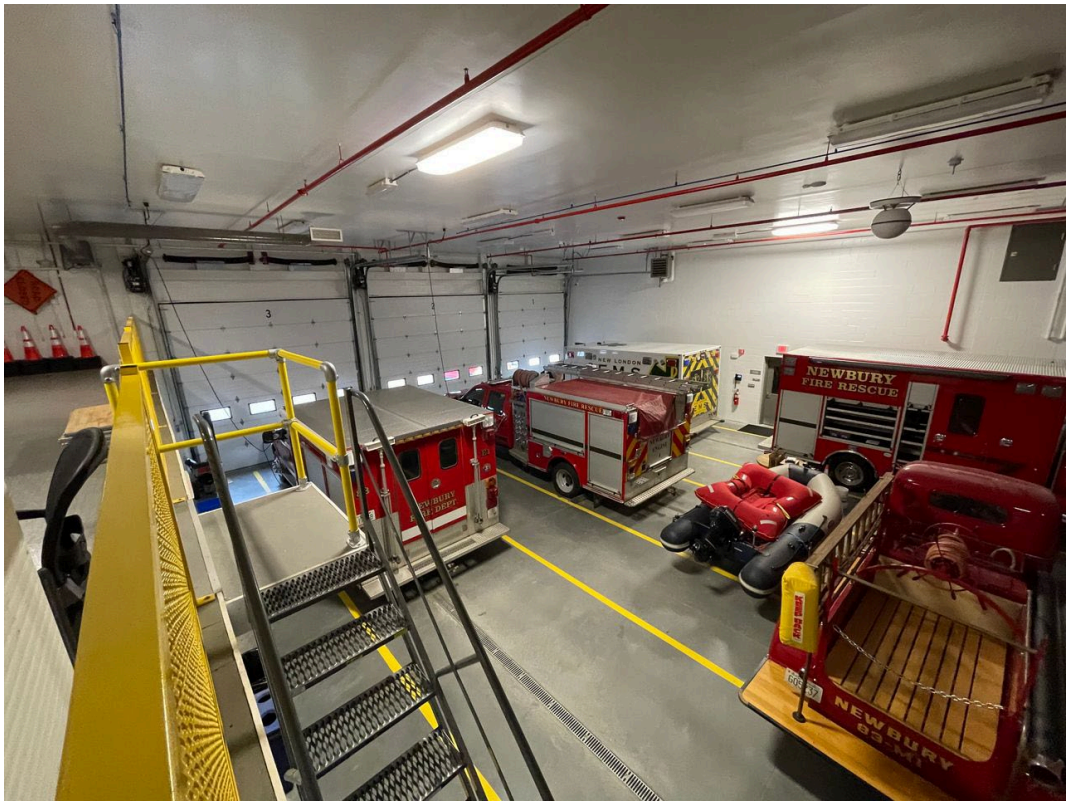
SCBA (air tanks) in separate room for noise & air tank for air brakes, 63-thousand-gallon water holding tank. 18,000 needed. 3/4" hose to town center. Cameras and intercom for the spaces. No connected vents to trucks, CO monitor and fresh air in Apparatus Bay

Small kitchen w/ small Ansel system, larger events catered, separate gear room, several storage rooms, including on for EMS items. Active 911-- TVs mounted in watch room and gear room. Tanker 2000-gallon, engine, foam tanker (smaller)

Photos:


NEWBURY FIRE
DEPARTMENT
PSEXPRESS

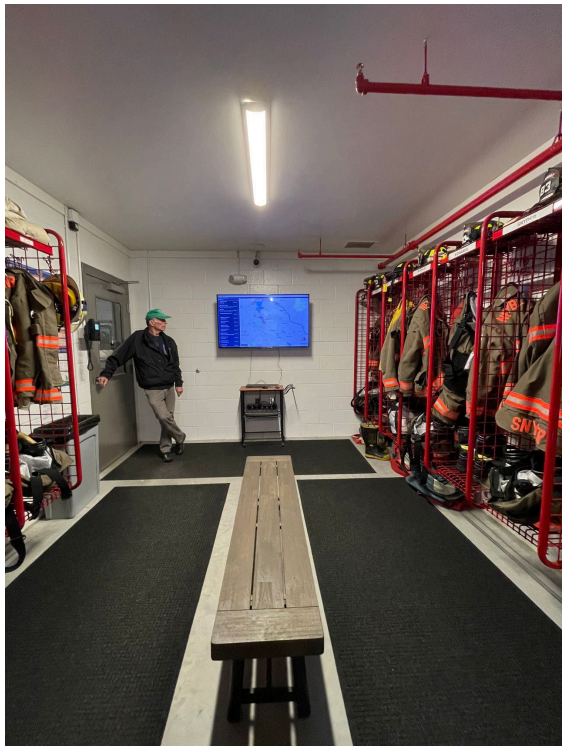

EPSON


NEWBURY
FIRE RESCUE
NEWBURY


NEWBURY FIRE RESCUE


BACKDRAFT


Ingersoll Rand

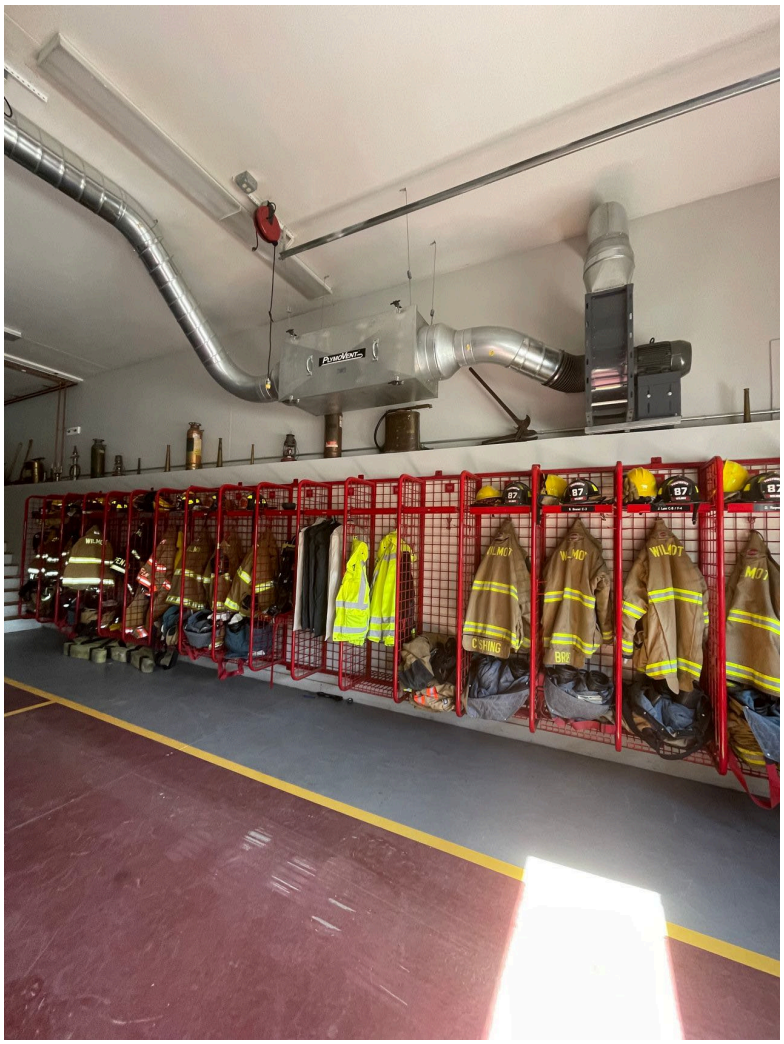


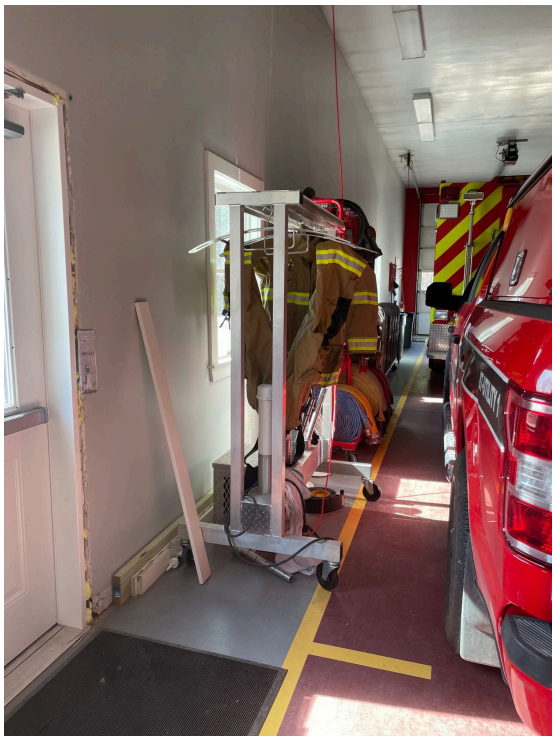
Wilmot, NH Fire Station:

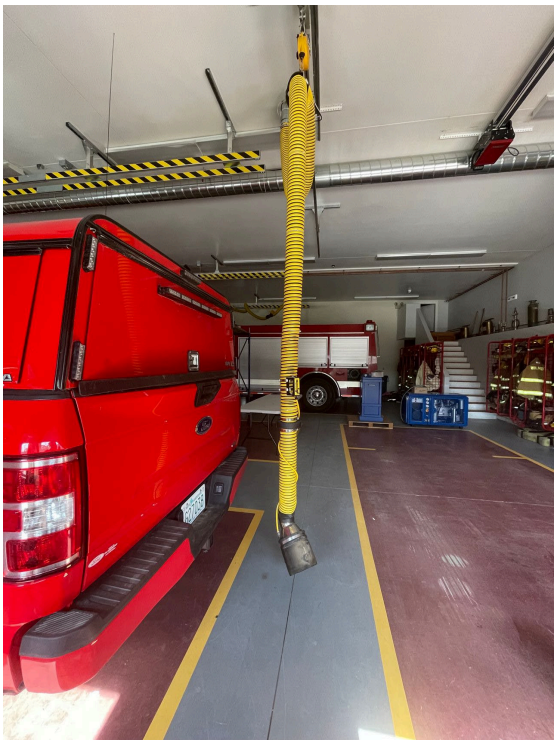
Year Built and/or year renovated and/or addition(s) done: 1995
Cost: unknown
Square footage: 64' x 72'=4,600 sf
Lot size: unknown (cannot find on tax maps or assessments (maybe map 16, lot 99, sub 01)
Lot Special Features: Retaining wall in back because of grade- building built into grade
Number of Parking Spaces: 17 approx. (w/ 2 handicap)
Size of department: 23 (with 8-12 active)
Population of the town: 1400
Area of Town in square miles: 29.6
Annual call volume: 130-150 (70-80% EMS calls)
Department type: All Volunteer with a $200 stipend for members
Number of stations in town: 1
Building Systems: Radiant Heat, evac system- no AC but window units
Construction Type/Materials: Conventional- stick framing, concrete slab, trusses
If the building is combined functions-what were the reasons for this?
Just Fire, full generator to as 'town shelter', Wilmot PD (One Full Time Chief currently, part time administrator and looking for part time officers) is using an office (chief's office) in the fire station and a garage bay for a cruiser. Town is starting to look at a space/ building for a police department.
What works well and what could have been done differently?
Could be better-
Station could be deeper, not enough storage, Engines and Rescue not always back-to-back
Good-
Commercial Kitchen works well for community meals and meetings, radiant heat, drains in floors, piped hot/ cold water to front of Apparatus Bay, mop sink, 2 Engines, tanker, Rescue, Fire/Rescue
Are there any other features worth noting?
Extra vehicle used for putting hose into truck, traffic. This is used a lot

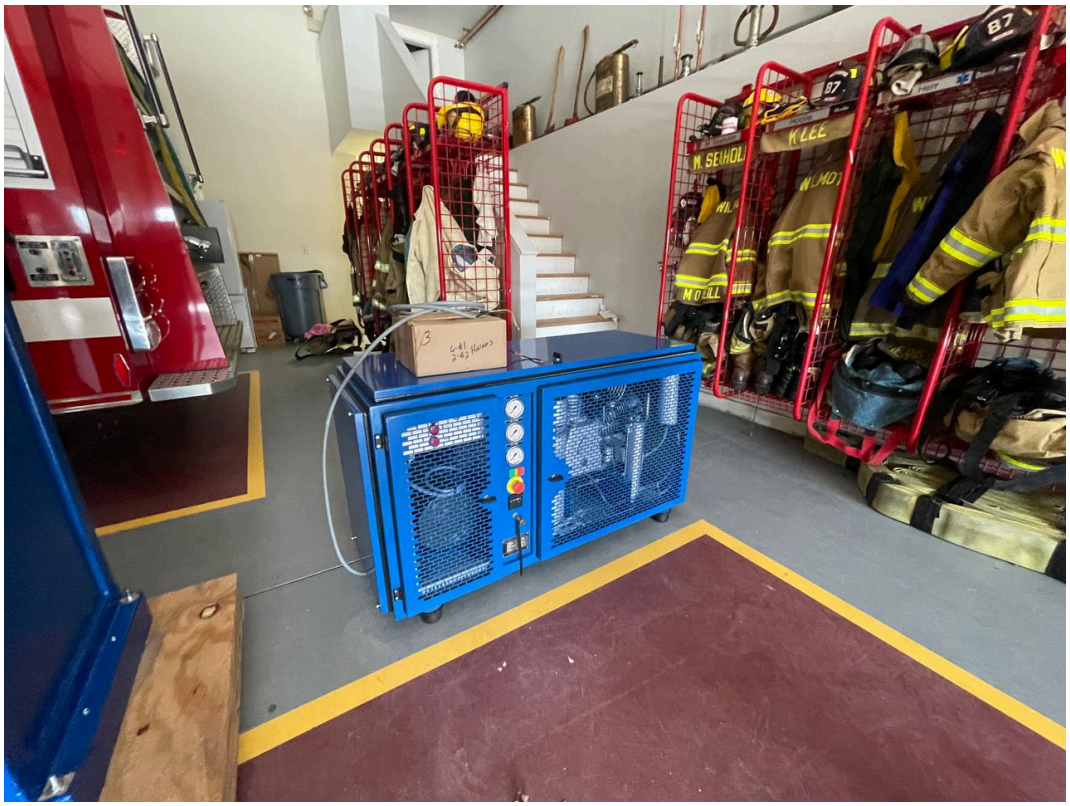
Photos:


WILMOT
VOLUNTEER FIRE DEPT.








M. SEIHOL
K LEE

Hudson, NH Station
204 Lowell Road
Year Built and/or year renovated and/or addition(s) done: 2018
Cost: 2.6 million; $325 psf
Square footage (if possible broke down by types or list of spaces (ie- offices vs. apparatus bays): 8,000 sq ft
Lot size: See attachment
Lot Special Features:
Number of Parking Spaces: 14
Size of department: 59 FT
Population of the town: 25,000
Area of Town in square miles: 29.3
Annual call volume:5,000
Department type: Full time career
Number of stations in town:3
Building Systems: See attachment
Construction Type/Materials: See attachment
Photos: James A. Taylor Memorial Fire Station - YouTube
Station Investments | Hudson New Hampshirehttps://www.hudsonnh.gov/fire/page/station-investments(hudsonnh.gov)
First few photos are of station 4; the remainder are central station
If the building is combined functions-what were the reasons for this? No combined functions
What works well and what could have been done differently? Watch room; offices closer to apparatus bay; loud speaker in apparatus bay reflects sound, cannot hear the dispatch from the radio

Grafton, NH Fire station:
Deep and large Station with three front facing doors, commercial kitchen and areas for future spaces such as meeting room. Built in the 1990's.

Lyme, NH Fire Station:
Year Built and/or year renovated and/or addition(s) done: completed 2021
Cost:1.1 mil- estimated $2.2 mil today
Square footage: 5,600 sf, $196 psf / $392 psf now
Lot size: unknown
Lot Special Features: close to downtown
Number of Parking Spaces: unknown
Size of department: unknown
Population of the town: 1753
Area of Town in square miles: 55
Annual call volume: unknown
Department type: unknown
Number of stations in town:1
Building Systems: unknown

Construction Type/Materials: conventional
If the building is combined functions-what were the reasons for this? No
That works well and what could have been done differently?
Add another 10' in the back for better circulation
Are there any other features worth noting?
Cistern for easy truck refill, Energy efficient. 12' wide bay doors
https://www.firenews.org/nh/l/lyme/lymenh.html
https://www.dropbox.com/s/w6sahupz35bf7qv/2020.04.29_lyme_fd_progress.pdf?dl=0

Portsmouth, NH Station 2
Year Built and/or year renovated and/or addition(s) done: 2010
Cost: 4.7 m
Square footage (if possible broke down by types or list of spaces (ie- offices vs. apparatus bays): 15,400, $305 psf (2010)
Lot size: 2.5 acres
Building Systems: Drive Thru- radiant heat, 100% storm water reclamation
If the building is combined functions-what were the reasons for this? No
Are there any other features worth noting? LEED certified

Jefferson, ME Station:
Square footage (if possible broke down by types or list of spaces (ie- offices vs. apparatus bays): 7900 sf
Lot Special Features: Close to downtown
Number of Parking Spaces: 30+
Size of department: 42
Population of the town: 2551
Area of Town in square miles: 82
Annual call volume: 250
Department type: Volunteer
Number of stations in town: 2
Building Systems: unknown
Construction Type/Materials: conventional
If the building is combined functions-what were the reasons for this? Fire & Rescue
Are there any other features worth noting?
http://www.firenews.org/me/ijk/jefferson/jeffersonme.html
Photos:

Photo by other

Photo by other

Photo by other
https://www.dropbox.com/s/k07i3o694sgifnp/Google%20Maps.pdf?dl=0

Other Precedent notes:
Gilmanton safety building - size and three doors
New Hampton (may be what not to do). Roughly 30 car parking spaces overall. Meeting room is on one end of building instead of in the middle, more easily shared between departments. This may have had to do with the separate parking area for meetings (trainings).

Other Fire Station Examples:
https://millerhull.com/project/mercer-island-fire-station-92/
$5,400,000 in 2013 for Mercer Island Station- 8000 sf= $675 psf

https://www.samaha-arch.com/old-orlean-volunteer-fire-station-11
https://www.partnersinarch.com/projects/City-of-Rochester-Fire-Station_PJ8.html
https://www.fosters.com/story/news/2008/10/30/portsmouth-committee-approves-fire-station/52215200007/
https://www.seacoastonline.com/story/news/local/portsmouth-herald/2010/12/10/portsmouth-s-fire-station-2/51350561007/
https://archello.com/project/portsmouth-fire-station

Departmental Options: